

**GRADING QUANTITIES** 

CONSTRUCT 207

CONSTRUCT 164 S.Y. SOIL STABILIZATION BLANKET

L.F. SILT FENCE |-

CUT = 178 CU YDS FILL= 235 CU YDS (1.4 FILL FACTOR) NET = 57 CU YDS (FILL)

\* GRADING QUANTITIES ARE APPROXIMATE AND ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL QUANTITY CALCULATIONS.

**LEGEND** 

BREAK LINE

SOIL STABILIZATION BLANKET

**GREEN OR APPROVED EQUAL)** 

ACCEPTABLE SILT FENCE SPECIFICATIONS- AOS (#20 - 50 SIEVE), WATER FLOW

2. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST

RATE (70 GPM/ SQ. FT. OR GREATER), TENSILE STRENGTH (GRAB) - (MIN. 120

OR TO WOVEN WIRE WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POSTS.

A MINIMUM OF 3 TIES ARE REQUIRED FOR EACH POST. TO BE LOCATED IN THE

STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A

SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. (INCLINE ALL

SILT FENCE SHALL BE TRENCHED IN WITH A MECHANICAL TRENCHER OR SILT FENCE PLOW SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND

THE TRENCH SHOULD BE A MINIMUM OF 6" DEEP AND 3-4" WIDE TO ALLOW FOR

THE SILT FENCE TO BE LAID IN THE GROUND AND COMPACTED BACKFILLED

SILT FENCE INSTALLED WITH A MECHANICAL TRENCHER SHALL HAVE METAL

PINS WITH 6" LEG X 1" THROATS PLACED AT 1'-0" CENTERS IN TRENCH BEFORE

SILT FENCE THAT IS TRENCHED IN SHALL BE A MINIMUM OF 9" DEEP; TRENCH

----1254---- EXISTING CONTOURS

----1254---- FINISHED CONTOURS

— — — LIMITS OF GRADING

(S-150 NORTH AMERICAN

WARP OR GREATER) AND ELONGATION (5-25%).

POSTS 20° MAX. FROM VERTICAL, TOWARD FLOW)

PERPENDICULAR TO THE LINE OF FLOW.

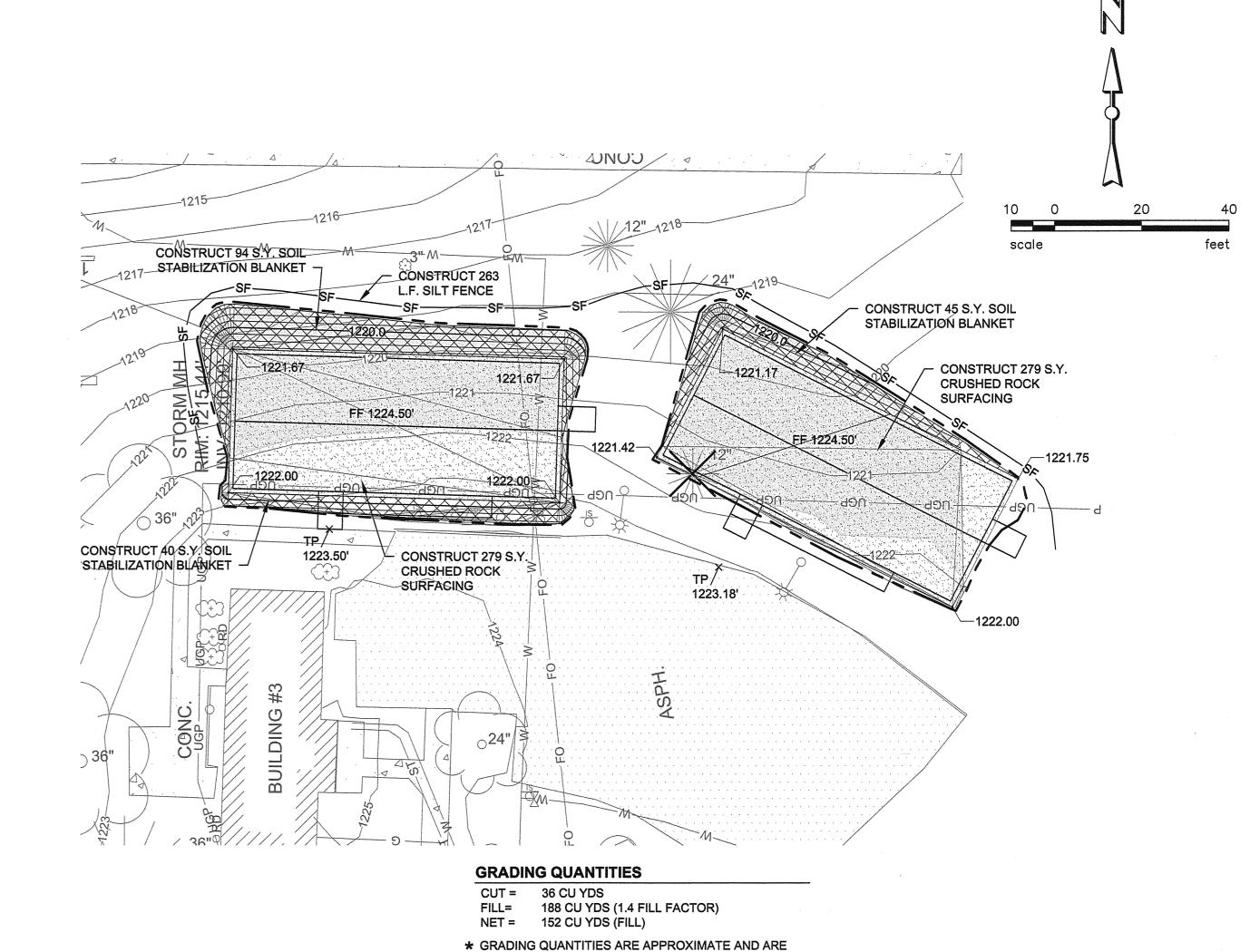
IT IS BACKFILLED AND COMPACTED.

SHALL BE BACKFILLED AND COMPACTED.

TOP 12" OF THE SILT FENCE.

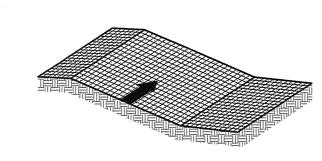
CAN BE PLACED.

----SF------ SILT FENCE



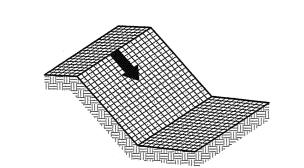
PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL QUANTITY CALCULATIONS

SHALLOW SLOPE

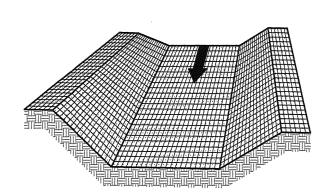


ON SHALLOW SLOPES, BLANKET SHALL BE APPLIED ACROSS THE SLOPE.

STEEP SLOPE



ON STEEP SLOPES, BLANKET SHALL BE PLACED PARALLEL TO THE DIRECTION OF FLOW AND ANCHORED SECURELY.



IN DITCHES, APPLY BLANKET PARALLEL TO THE DIRECTION OF FLOW. USE CHECK SLOTS AS REQUIRED. AVOID JOINING MATERIAL IN THE CENTER OF THE DITCH IF AT ALL POSSIBLE.

## **INSTALLATION REQUIREMENTS:**

AFTER THE SITE HAS BEEN SHAPED AND GRADED TO APPROVED DESIGN; LIME, FERTILIZE AND SEED IN ACCORDANCE WITH SEEDING OR OTHER TYPE OF PLAN.

- 1. START LAYING THE PROTECTIVE COVERING FROM THE TOP OF THE CHANNEL
- OR TOP OF SLOPE AND UNROLL DOWN-GRADE. 2. ALLOW TO LAY LOOSELY ON SOIL - DO NOT STRETCH.
- 3. UPSLOPE ENDS OF THE PROTECTIVE COVERING SHOULD BE BURIED IN A ANCHOR SLOT NO LESS THAN 6 INCHES DEEP. TAMP EARTH FIRMLY OVER THE MATERIAL. STAPLE THE MATERIAL AT A MINIMUM OF EVERY 12 INCHES ACROSS THE TOP END.
- 4. EDGES OF THE MATERIAL SHALL BE STAPLED EVERY 3 FEET. WHERE MULTIPLE WIDTHS ARE LAID SIDE BY SIDE, THE ADJACENT EDGES SHALL BE OVERLAPPED A MINIMUM OF 2 INCHES AND STAPLED TOGETHER. 5. STAPLES SHALL BE PLACED DOWN THE CENTER, STAGGERED WITH THE EDGES AT 3 FOOT INTERVALS.

6. ON HIGHLY ERODIBLE SOILS AND ON SLOPES STEEPER THAN 4:1, EROSION

- CHECK SLOTS SHOULD BE MADE EVERY 50 FEET. INSERT FOLD OF THE MATERIAL (SEPARATE PIECE) INTO A 6 INCH TRENCH AND TAMP FIRMLY. STAPLE FOLD TO "MAIN" BLANKET AT A MINIMUM 12 INCH INTERVALS ACROSS THE UPSTREAM AND DOWNSTREAM PORTION OF THE BLANKET. 7. WHEN JOINING A NEW ROLL OF PROTECTIVE COVERING TO ANOTHER, INSERT THE NEW ROLL INTO AN ANCHOR SLOT, AS WITH UPSLOPE ENDS. OVERLAP THE END OF THE PREVIOUS ROLL A MINIMUM OF 12 INCHES, AND STAPLE
- THE MATERIAL EVERY 12 INCHES. 8. AT THE POINT AT WHICH THE MATERIAL IS DISCONTINUED, OR AT WHICH TIME THE PROTECTIVE COVERING MEETS A STRUCTURE OF SOME TYPE, FOLD 4 INCHES OF THE MATERIAL UNDERNEATH AND STAPLE EVERY 12 INCHES.

ACROSS THE END OF THE ROLL JUST BELOW THE ANCHOR SLOT AND ACROSS

AT BOTTOM OF SLOPES LEAD COVERING OUT ONTO A LEVEL AREA BEFORE ANCHORING. TURN ENDS UNDER 4 INCHES, AND STAPLE ACROSS END EVERY 36" SILT FENCE MUST BE A MIN. OF 24" ABOVE GROUND

WITH THE GROUND, AND ALL DISTURBED AREAS HAVE BEEN SEEDED.

SPACING CTR. TO CTR. FOR 36" & 42" SILT FENCE OR 5' — MAX. SPACING CTR. TO CTR. FOR 48" SILT FENCE AND SHALL NOT EXCEED 30" ABOVE GROUND ELEVATION. -10. AFTER INSTALLATION CHECK THAT BLANKET IS IN UNIFORM CONTACT WITH 42" & 48" SILT FENCE MUST BE TRENCHED IN AT 9-12" THE SOIL, AND LAP JOINTS ARE SECURE, ALL STAPLES ARE DRIVEN FLUSH

5'-6" MIN. STEEL STUDDED "T" LINE POSTS @ 6' MAX.

SILT FENCE NOT TO SCALE

TRENCH AND COMPACTED BACKFILL -

## GENERAL GRADING NOTES

CONSTRUCT 607.S. CRUSHED ROCK

- SHAPE SWALE TO

PIER FOOTINGS

- 1. THE CITY OF OMAHA EROSION & SEDIMENT CONTROL MANUAL SHALL APPLY TO THIS CONSTRUCTION AND THE CONTRACTOR SHALL PERFORM IN ACCORDANCE
- 2. THIS PROJECT LIES WITHIN THE JURISDICTION OF THE CITY OF OMAHA. THE PROJECT SHALL MEET THE "CITY OF OMAHA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2003 3RD EDITION, AUGUST VERSION" AND ANY CURRENT REVISIONS OR AMENDMENTS THEREIN. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE THEREIN UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DRAWINGS OR SUPPLEMENTAL SPECIFICATIONS. IF A CONFLICT BETWEEN SPECIFICATIONS OR CODES IS FOUND, THE MORE STRICT SPECIFICATION OR CODE SHALL APPLY AS DIRECTED BY THE ENGINEER.
- 3. THE ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO
- 4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING
- 5. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE
- MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF RESTORATIONS. 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN POSITIVE DRAINAGE AT ALL TIMES TO ALL AREAS WITHIN THIS PROJECT.
- DITCHES AND ERODED AREAS SHALL BE UNDERCUT A MINIMUM OF 12 INCHES ON ALL BOTTOMS AND SIDES PRIOR TO PLACEMENT OF ANY FILL. SEPARATE PAYMENT WILL NOT BE MADE FOR SAID UNDERCUTTING. 7. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE EXCAVATION MATERIAL INCLUDING BRICK, ROCK AND OTHER RUBBLE. EXCESS EXCAVATION FROM OTHER
- BE CONSIDERED INCIDENTAL TO THE PROJECT. 8. REMOVAL OF EXISTING TREES, SHRUBS, FENCES, OR RUBBLE WITHIN THE GRADING AREA SHALL BE AS DIRECTED BY THE ENGINEER. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT PRIOR DIRECTION FROM THE ENGINEER. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR

AREAS OF THE PROJECT SHALL BE USED FOR BACKFILL IN THOSE AREAS WHERE UNSUITABLE EXCAVATION MATERIALS ARE ENCOUNTERED. THIS WORK SHALL

- REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL, MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- 9. COMPACTION REQUIREMENTS SHALL BE 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD METHOD). MOISTURE LIMITS SHALL BE -3% TO +4% OF OPTIMUM.
- 10. THE CONTRACTOR SHALL MONITOR PERIMETER SILT FENCING AND INSTALL ADDITIONAL SILT FENCING IF NECESSARY OR AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR "INSTALL SILT FENCE".
- 11. DIVERSION DITCHES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND AS NECESSARY THROUGH OUT THE TERM OF THE PROJECT TO PROPERLY CONTROL SEDIMENT EROSION AND PROTECT ADJACENT PROPERTIES, AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE SUBSIDIARY TO ITEMS FOR WHICH DIRECT PAYMENT IS MADE.

- 1. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO DIGGERS HOTLINE (811) AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT
- MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 48 HOURS BEFORE START OF CONSTRUCTION. 2. THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.
- 3. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ENGINEER.

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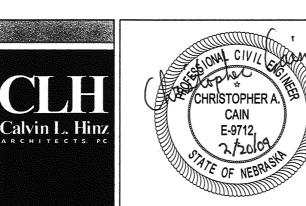
other purposes. Permission

SOIL STABILIZATION BLANKET

NOT TO SCALE

IMPORTANT CONTRACTOR'S NOTE

1. ALL CONTRACTORS ARE RESPONSIBLE FOR REVIEWING ENTIRE SET OF DOCUMENTS TO DETERMINE THEIR FULL SCOPE OF WORK. CONTRACTOR SHALL NOT BE ALLOWED EXTRA COSTS DUE TO FAILURE TO REVIEW ENTIRE SET OF DOCUMENTS. 2.) ANY USE OF THESE ELECTRONIC DRAWINGS OR SCALING OF



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Project Number: Office of UTILITY CORRIDOR Phase One of 636-07-134 SITE GRADING Building Number: West Utility Corridor Construction **UPGRADE** and Facilities Drawing Number: VAMC Omaha, NE Checked by Drawn by

Revisions:

VA FORM 08-6231

prohibited.

written consent of Calvin . Hinz Architects is

in part or whole without

THE PRINTED DOCUMENTS ARE DONE SO AT THE CONTRACTORS

United Engineering 20507 Nicholas Circle, Suite 108 Elkhorn, Nebraska 68022 402.763.9475 402.763.9527

FEBRUARY 20, 2009

DHP Dwg. 2 of 4

Managemen Veterans Affairs

CLH 2008-18